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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#10/IDS
(Suppl.)

In re PATENT APPLICATION OF

UBER III, et al.

Group Art Unit: 3737

Appln. No.: 09/545,582

Examiner: Casler, B.

Filed: April 7, 2000

Title: **PATIENT INFUSION SYSTEM FOR USE WITH MRI**

June 14, 2001

* * * * *

SUPPLEMENTAL INFORMATION

DISCLOSURE STATEMENT

Honorable Commissioner
Of Patents
Washington, D.C. 20231

Sir:

On May 31, 2001, the Applicant filed an Information Disclosure Statement ("IDS") supplying a number of references for consideration by the Examiner.

Further to that submission, the Applicant files this Supplemental Information Disclosure Statement ("Supplemental IDS") for the following two reasons: (1) to supply a reference not supplied with the May 31st submission, and (2) to correct errors in the PTO Forms 1449 that were submitted with the May 31st IDS.

First, the Applicant submits with this Supplemental IDS a copy of the reference entitled "Magnetic Resonance Injector Operation Manual," printed by Medrad, Inc. (the assignee of the above-entitled patent application) and dated November 17, 1987.

Second, the Applicant notes the following changes to the PTO Forms 1449 that were submitted to the Office on May 31st: (1) On page 4 of 6, the brochure by the Liebel-Flarsheim Company entitled "Angiomat CT – Digital Injection System for Enhanced CT

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Scans,” dated 1988, was originally highlighted as not having been submitted. The Applicant respectfully points out that the reference was submitted with the May 31st IDS and, as a result, is not highlighted in the attached, revised PTO Forms 1449; (2) On page 5 of 6, the Medrad brochure entitled “In perfect synch for better images – The Medrad Mark V Console with Control Room Monitor,” Control No. 85106-00-BA-02, dated 11/88, was originally highlighted as not having been submitted. The Applicant respectfully points out that the reference was submitted with the May 31st IDS and, as a result, is not highlighted in the attached, revised PTO Forms 1449; and (4) On page 5 of 6, the Medrad reference entitled “Medrad Microprocessor CT Injection System – MCT 305 and MCT 310 Operation Manual,” KMP 810 Rev. D, dated 1990, was originally not highlighted, indicating that the reference had been supplied with the May 31st IDS. The Applicant respectfully points out that the Operation Manual was not included with the May 31st IDS and, as a result, is now highlighted on the revised PTO Forms 1449 attached hereto.

The attached six (6) sheets (forms PTO-1449) are being submitted in their entirety as replacements for the six (6) sheets submitted with the May 31st IDS. As before, the Applicant respectfully points out that the references listed on the PTO Forms 1449 that are highlighted have not been supplied by the Applicant for the Examiner’s consideration because they are currently unavailable. The Applicant, however, continues to search for the highlighted references. When they are received, the Applicant will furnish copies to the Office.

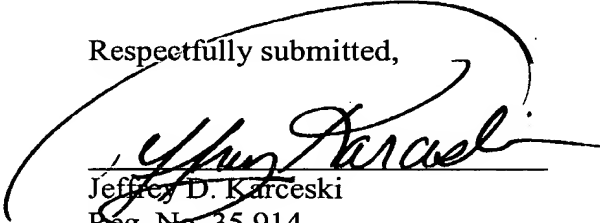
This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to comply fully.

Contingent IDS Request Under Rule 97(d): Should a Final Rejection or Notice of Allowance issue with a mailing date which precedes or is the same as the filing date of this

IDS, please consider this a Request under Rule 97(d), charge the IDS fee (Rule 17(p)) to our Deposit Account No. 03-3975 under Order No. 71419/272813, and proceed to consider this IDS under Rule 97(d).

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Respectfully submitted,



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Date: June 14, 2001 Page 1 of 6

Applicant: UBER, III et al.

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 4,694,837	09/1987	Blakeley et al.			
	BR 4,893,082	01/1990	Letcher, III			
	CR 4,901,141	02/1990	Costello			
	DR 5,038,785	08/1991	Blakeley et al.			
	ER 5,323,776	06/1994	Blakeley et al.			
	FR 4,651,099	03/1987	Vinegar et al.			
	GR					
	HR					
	IR					
	JR					
	KR					
	LR					
	MR					

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
	NR EP 10550A1	05/1980	Europe	Zachua	X			
	OR EP 518100A1	12/1992	Europe	Rindlsbacher	X			
	PR EP 495287A3	07/1986	Europe	Fishman				
	QR EP 105 550	04/1984	Europe	Van Dijk				
	RR							
	SR							
	TR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

UR	Nadel, Scott N. et al., "Detection of Acute Avascular Necrosis of the Femoral Head in Dogs: Dynamic Contrast-Enhanced MR Imaging vs Spin-Echo and Stir Sequences," AJR:159, pp. 1255-61 (Dec. 1992)			
VR	"Market Scan," Diagnostic Imaging, p. 61 (Sep. 1988)			
WR	"Magnetic Resonance Injector Operation Manual," Medrad, Inc. (Nov. 17, 1987)			

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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ORIGINAL PATENT DOCUMENTS							Abstract		Readily Available	
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	ER									
	FR									
	GR									
	HR									

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

IR	Saini, Sanjay et al., "Technical Report: In Vitro Evaluation of a Mechanical Injector for Infusion of Magnetic Resonance Contrast Media," Investigative Radiology, vol. 26/No. 8, pp. 748-51 (Aug. 1991)			
JR	Medex publication entitled, "AS2000 Injector," facsimile transmission date of January 25, 1989		X	
KR	Runge, Val M. et al., "Assessment of Cerebral Perfusion by First-Pass, Dynamic, Contrast-Enhanced, Steady-State Free-Precession MR Imaging," AJR:160, March, 1993			
LR	Ross, Ronald J. et al., "Site Location and Requirements for the Installation of a Nuclear Magnetic Resonance Scanning Unit," Magnetic Resonance Imaging: Vol. 1, Number 1, pp. 29-33 (accepted February, 1982)			
MR	Kaufman et al., "Nuclear Magnetic Resonance Imaging in Medicine," Ikgu-Shoin Medical Publishers, Inc., 50 Rockefeller Plaza, New York, New York 10020 (1981)			
NR	Ott, Henry W., "Noise Reduction Techniques in Electronic Systems," AT&T Bell Laboratories, published by John Wiley & Sons, Inc., pp. 159-202 (1988)			
OR	Morrison, Ralph et al., "Grounding and Shielding in Facilities," John Wiley & Sons, Inc., pp. 168-207 (1990)			
PR	Mardiguian, Michel, "Controlling Radiated Emissions by Design," Chapman & Hall, 115 Fifth Avenue, New York, New York, pp. 237-255 (1992)			
QR	Liao, Samuel Y., "Light Transmittance and RF Shielding Effectiveness of a Gold Film on a Glass Substrate," IEEE Transactions on Electromagnetic Compatability, pp. 211-16 (November, 1975)			
RR	GE Medical Systems Technical Publication entitled "Signa® Site Planning," Direction 15002, Revision 14 (dated 1990)			
SR	Brandt-Zawadski, Michael et al., "Magnetic Resonance Imaging of the Central Nervous System," Raven Press, Ltd., 1185 Avenue of the Americas, New York, New York 10036 (1987)			

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FORM PTO-1449 (modified)
To: U.S. Department of Commerce
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	FR							
	GR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

HR	Wolff, Steven D. et al., "Magnetization Transfer Contrast: MR Imaging of the Knee," Radiology: June, 1991, pp.623-628							
IR	Shimadzu publication entitled, "SMT-150 Magnetic Resonance Imaging System," CA576-904 dated 1990							
JR	Karlik, S.J. et al., "Patient Anesthesia and Monitoring at a 1.5-T MRI Installation," Magnetic Resonance in Medicine 7, pp. 210-21 (1988)							
KR	"Magnetic Resonance Workbook," Raven Press Ltd., 1185 Avenue of the Americas, New York, New York 10036 (1990)							
LR	Bronskill, Michael J. et al., "Site-Planning for Magnetic Resonance Imaging Systems," AAPM Report No. 20, published for the American Association of Physicists in Medicine by the American Institute of Physics, Library of Congress Catalog Card Number: 87-70832 (December, 1986)							
MR	Siemens publication entitled "MR Imaging Site Planning," undated							
NR	Siemens Aktiengesellschaft Medical Engineering Group publication entitled "MAGNETOM Impact - Whole Body MR Imaging System," dated 1991							
OR	Hitachi Medical Systems America, Inc. publication entitled "MRP- Magnetic Resonance Imaging System," dated 1990							
PR	Philips Medical Systems publication entitled "Gyroscan T5-RF Shielding Requirements," dated 1998							
QR	Philips Medical Systems publication entitled "Gyroscan S15/ACS Site Planning Guide," dated February 19, 1990							
RR	Philips Medical Systems publication entitled "Gyroscan S15/ACS Site Planning Guide," dated May 1, 1991							
SR	GE Medical Systems publication, "M1000HA: 1.5 Signa® Advantage™ Magnetic Resonance System," dated 1991							
TR	GE Medical Systems publication, "M1600HA: 1.5 Signa® Advantage™ Magnetic Resonance System," dated 1991							

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JR	Picker International Inc. publication entitled, "Architectural Planning Guide: MR Systems," undated				
KR	Liebel-Flarsheim Company, "Angiomat CT Digital Injection System- Operator's Manual," 600964, dated 1988				
LR	Liebel-Flarsheim Company, "Angiomat CT Digital Injection System- Operator's Manual," 600964, Rev. A, dated 12/91				
MR	Liebel-Flarsheim Company, "Angiomat 6000 Digital Injection System- Operator's Manual," 600981, dated 2/91				
NR	Liebel-Flarsheim Company, "Angiomat CT - Order & Installation Guide," dated 3/90				
OR	Liebel-Flarsheim Company, "Angiomat 6000 Digital Injection System- Order & Installation Guide," dated 3/90				
PR	Liebel-Flarsheim Company brochure, "Angiomat CT- Digital Injection System for Enhanced CT Scans," dated 1988				
QR	Liebel-Flarsheim Company, "Angiomat 6000 Contrast Delivery System," dated 1992				
RR	Liebel-Flarsheim Company, "CT 9000 Digital Injection System, Operator's Manual," dated February, 1992				
SR	Liebel-Flarsheim Company, "CT 9000 Parts Manual," dated February, 1992				
TR	Liebel-Flarsheim Company brochure, "CT 9000 Contrast Delivery System," dated 1992				
UR	Liebel-Flarsheim Company, "LF System Packages- Angiographic & CT Injectors," dated 10/92				

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IR	Medrad, Inc. brochure, "The first and only true injection system- Medrad Mark V System," Control No. 85106-00-BA-01 Rev. A 12/88			
JR	Medrad, Inc. brochure, "In perfect synch for better images - The Medrad Mark V Console with Control Room Monitor," Control No. 85106-00-BA-02 11/88			
KR	Medrad, Inc brochure, "The Medrad MCT Injection System - More than a good image," Control No. 87101-00-BA-05			
LR	Medrad, Inc., "Medrad Microprocessor CT Injection System - MCT 305 and MCT 310 Operation Manual," KMP 810 Rev. D, dated 1990			
MR	Medrad, Inc., "MCT and MCT Plus Injection System - Operation Manual - KMP 810P," dated 1991			
NR	Pope, Katherine S., "An Infusion Pump That Works in MRI," Anesth Analg 1993:77: p.645, Letters to the Editor			
OR	Hargraves, Allison, "Medrad Targets Market for MRI," Allison Hargraves, Pittsburgh Times, V7, n18, p.1(2), December 21, 1987			
PR	Shellock, Frank, "Monitoring During MRI," Medical Electronics, pp. 93-97 (September, 1986)			
QR	Shellock, Frank G. et al., "Monitoring Heart Rate and Oxygen Saturation with a Fiber-optic Pulse Oximeter During MR Imaging," American Journal of Roentgenology, pp. 663-664 (March, 1992)			
RR	GE Medical Systems brochure, "Signa Profile," dated 1994			
SR	Philips Medical Systems brochure entitled "MRI ... An introduction to basic principles," undated			
TR	G. Neil Holland, M. Phil., "The Design of a Digital RF Transmitter/Receiver (DTR) for Magnetic Resonance Imaging," Picker International, Inc., dated 1990			
UR	Picker International Inc. publication entitled, "Oracle Digital Image Management," undated			
VR	Picker International Inc. publication entitled, "Dyna Camera Series 5," undated			

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NR	Picker International Inc. publication entitled, "Picker International Introduces The NMR Systems, a Quantum Leap Forward in Diagnostic Imaging," undated			
OR	Picker International Inc. publication entitled, "The Ultimate Achievement in CT Technology," undated			
PR	Picker International Inc. publication entitled, "Digital Dyna Camera," undated			
QR	Picker International Inc. publication entitled, "Picker, The Image of Excellence," undated			
RR	Philips Medical Systems publication entitled "Principles of MR Imaging," undated			
SR	Philips Medical Systems publication entitled "Gyrosan MRI Program," undated			
TR	Philips Medical Systems publication entitled "Basic Principles," undated			
UR	Liebel-Flarsheim Company brochure, "Angiomat 6000 Digital Injection System," undated			
VR	Medrad, Inc. brochure, "Medrad MCT Plus Front Load Injection System," Control No. 87101-00-BA-06 Rev. A			
WR	Medrad, Inc. brochure, Control No. 78101-00-CM-01 8/88			
XR	Liebel-Flarsheim Company brochure entitled "Angiomat CT: Digital Injection System for Enhanced CT Scans," undated			
YR	Medrad, Inc., "Medrad Mark V Plus Injector Operation Manual," KMP 805 Rev. P, dated 1990			

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